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In the Claims

 (Original) A method for processing a Java Archive (JAR) file to provide an interpretable application file adapted for a target environment, comprising:

removing from said JAR file at least a portion of information not necessary for executing said application;

mapping at least one of application defined interface, class, field and method names to shorter names; and

mapping at least one of target environment defined interface, class, field and method names to corresponding target device names.

- (Original) The method of claim 1, wherein said step of removing comprises: removing unnecessary byte codes from said JAR file.
- (Original) The method of claim 1, wherein said step of removing comprises: removing at least one of private unreferenced methods and fields from said JAR file.
- (Original) The method of claim 1, further comprising: identifying within said JAR file instances of duplicate strings; and remapping each duplicate string to a corresponding initial string.

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5. (Original) The method of claim 1, further comprising:

identifying within said JAR file instances of strings; providing a table to hold one instance of each identified string; and remapping each identified string to a corresponding string table entry.

- 6. (Original) The method of claim 1, further comprising at least one of the following steps:
 - (a) removing unreferenced constant pool entries for at least one class;
 - (b) mapping constant pool entry names to fixed length names; and
 - (c) sorting constant pool entries by type.
- 7. (Original) The method of claim 1, further comprising:

preferentially remapping application references to at least one of target environment defined interface, class, field and method names.

8. (Original) The method of claim 1, wherein:

a target environment obfuscation is provided in which symbols used in the target environment are replaced with shorter names.

9. (Currently amended) The method of claim 1, wherein:

an application obfuscation is provided in which symbols used in an <u>said</u> application are replaced with shorter names that do not overlap the <u>target device</u> names used for target environment obfuscation.

(Original) The method of claim 1, further comprising:
 mapping constant pool entry names to names having a fixed length.

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(Original) The method of claim 10, further comprising:
 moving strings from the constant pool to a common string pool.

12. (Original) The method of claim 1, further comprising:

assigning a global name to at least one of application and target environment methods of each interface class.

13. (Original) The method of claim 1, wherein:

said mapping steps are only used for mapping private symbols.

14. (Currently amended) A method, comprising:

removing at least a portion of at least one of non-critical archive information, class information and unreferenced member information from a Java Archive (JAR)arfile including an application;

replacing at least one of interface, class, field and method names with corresponding shorter interface, class, field and method names; and

replacing at least one of target environment defined interface, class, field and method names with corresponding target device interface, class, field and method names.

15. (Currently amended) A method, comprising:

iteratively [[re]]solving application defined and target environment defined class, field and method names to interpret application byte codes presented within a ground Java Archive (JAR)ar file to produce a minimized JAR file.

16. (Currently amended) A signal bearing computer readable medium including a representation of software instructions which, when executed by a processor, perform a method for processing a Java Archive (JAR) file to provide an executable application file adapted for a target environment, comprising:

removing from said JAR file at least a portion of information not necessary for executing said application:

mapping at least one of application defined interface, class, field and method names to shorter names; and

mapping at least one of target environment defined interface, class, field and method names to corresponding target device names.

17. (Currently amended) A computer program product, embodied on a computer readable medium comprising a computer data signal embodied in a carrier wave having computer readable code embodied there in for causing a computer to process a Java Archive (JAR) file to provide an executable application file adapted for a target environment, said computer process comprising:

removing from said JAR file at least a portion of information not necessary for executing said application;

mapping at least one of application defined interface, class, field and method names to shorter names; and

mapping at least one of target environment defined interface, class, field and method names to corresponding target device names.